

32692
Customer Number

Patent
Case No.: 58915US007

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: **LINDSTROM, KYLE J.**

Application No.: Group Art Unit: **Unknown**

Filed: Examiner: **Unknown**

Title: **ALKOXY SUBSTITUTED IMIDAZOQUINOLINES**

INFORMATION DISCLOSURE STATEMENT

Mail Stop: PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR §§ 1.56, 1.97, and 1.98, enclosed is a completed Form PTO-1449, citing references submitted for consideration by the Examiner. It is respectfully requested that the Examiner initial and return the enclosed Form PTO-1449 to indicate that each reference has been considered.

Copies of any additional cited foreign patents, foreign publications, non-patent literature documents; and any pending U.S. applications filed before June 30, 2003, are enclosed. Copies of any pending U.S. applications filed after June 30, 2003 that can be accessed on the USPTO's IFW system are not enclosed as per USPTO Waiver dated September 21, 2004. Copies of any U.S. patents and published U.S. patent applications are not enclosed.

It is believed that no fee is due; however, in the event a fee is required, please charge the fee to Deposit Account No. 13-3723.

Respectfully submitted,

Date

28 MARCH 2006

By: Dean A. Ersfeld
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Facsimile No.: 651-736-3833

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|--|--|----------------------|--------------------|
| Substitute for form 1449A/PTO (modified) | | Application Number | Unknown |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) Page 1 of 5 | | Filing Date | |
| | | First Named Inventor | LINDSTROM, KYLE J. |
| | | Art Unit | Unknown |
| | | Examiner Name | Unknown |
| | | Attorney Case Number | 58915US007 |
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| U.S. Patent Documents | | | | | |
|-----------------------|-------------|----------------------------------|---|--|---|
| Exam. Init.* | Cite No. | Document Number | Publication Date or Issue Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Doc. Number-(Kind Code if Known) | | | |
| | A1 | US- 3,314,941 | 04-18-1967 | Littell et al. | |
| | A2 | US- 4,689,338 | 08-25-1987 | John F. Gerster | |
| | A3 | US- 4,698,348 | 10-06-1987 | John F. Gerster | |
| | A4 | US- 4,929,624 | 05-29-1990 | Gerster et al. | |
| | A5 | US- 4,988,815 | 01-29-1991 | Andre et al. | |
| | A6 | US- 5,037,986 | 08-06-1991 | John F. Gerster | |
| | A7 | US- 5,175,296 | 12-29-1992 | Gerster | |
| | A8 | US- 5,238,944 | 08-24-1993 | Wlick et al. | |
| | A9 | US- 5,266,575 | 11-30-1993 | John F. Gerster | |
| | A10 | US- 5,268,376 | 12-07-1993 | John F. Gerster | |
| | A11 | US- 5,346,905 | 09-13-1994 | John F. Gerster | |
| | A12 | US- 5,352,784 | 10-04-1994 | Nikolaides et al. | |
| | A13 | US- 5,367,076 | 11-22-1994 | Gerster | |
| | A14 | US- 5,389,640 | 02-14-1995 | Gerster et al. | |
| | A15 | US- 5,395,937 | 03-07-1995 | Nikolaides et al. | |
| | A16 | US- 5,446,153 | 08-29-1995 | Llindstrom et al. | |
| | A17 | US- 5,482,936 | 01-09-1996 | Kyle J. Lindstrom | |
| | A18 | US- 5,693,811 | 12-02-1997 | Lindstrom | |
| | A19 | US- 5,741,908 | 04-21-1998 | Gerster et al. | |
| | A20 | US- 5,756,747 | 05-26-1998 | Gerster et al. | |
| | A21 | US- 5,939,090 | 08-17-1999 | Beaurline et al. | |
| | A22 | US- 6,039,969 | 03-21-2000 | Tomai et al. | |
| | A23 | US- 6,069,149 | 05-30-2000 | Nanba et al. | |
| | A24 | US- 6,083,505 | 07-04-2000 | Miller et al. | |
| | A25 | US- 6,110,929 | 08-29-2000 | Gerster et al. | |
| | A26 | US- 6,194,425 | 02-27-2001 | Gerster et al. | |
| | A27 | US- 6,200,592 | 03-13-2001 | Tomai et al. | |
| | A28 | US- 6,245,776 | 06-12-2001 | Skwierczynski et al. | |

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|--|------------------|
| *Examiner: | Date Considered: |
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|--|--|----------------------|--------------------|
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| | | Examiner Name | Unknown |
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| U.S. Patent Documents | | | | | |
|-----------------------|---------------|----------------------------------|---|--|---|
| Exam. Init.* | Cite No. | Document Number | Publication Date or Issue Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Doc. Number-(Kind Code if Known) | | | |
| A29 | US- 6,331,539 | | 12-18-2001 | Crooks et al. | |
| A30 | US- 6,376,669 | | 04-23-2002 | Rice et al. | |
| A31 | US- 6,451,810 | | 09-17-2002 | Coleman et al. | |
| A32 | US- 6,518,265 | | 02-11-2003 | Kato et al. | |
| A33 | US- 6,525,064 | | 02-25-2003 | Dellarria et al. | |
| A34 | US- 6,541,485 | | 04-01-2003 | Crooks et al. | |
| A35 | US- 6,545,016 | | 04-08-2003 | Dellarria et al. | |
| A36 | US- 6,545,017 | | 04-08-2003 | Dellarria et al. | |
| A37 | US- 6,558,951 | | 05-06-2003 | Tomai et al. | |
| A38 | US- 6,573,273 | | 06-03-2003 | Crooks et al | |
| A39 | US- 6,656,938 | | 12-02-2003 | Crooks et al. | |
| A40 | US- 6,660,735 | | 12-09-2003 | Crooks et al. | |
| A41 | US- 6,660,747 | | 12-09-2003 | Crooks et al. | |
| A42 | US- 6,664,260 | | 12-16-2003 | Charles et al. | |
| A43 | US- 6,664,264 | | 12-16-2003 | Dellarria et al. | |
| A44 | US- 6,664,265 | | 12-16-2003 | Crooks et al. | |
| A45 | US- 6,667,312 | | 12-23-2003 | Bonk et al. | |
| A46 | US- 6,670,372 | | 12-30-2003 | Charles et al. | |
| A47 | US- 6,677,347 | | 01-13-2004 | Crooks et al. | |
| A48 | US- 6,677,348 | | 01-13-2004 | Heppner et al. | |
| A49 | US- 6,677,349 | | 01-13-2004 | Griesgraber | |
| A50 | US- 6,683,088 | | 01-27-2004 | Crooks et al. | |
| A51 | US- 6,696,465 | | 02-24-2004 | Dellarria et al. | |
| A52 | US- 6,706,728 | | 03-16-2004 | Hedenstrom, et al. | |
| A53 | US- 6,743,920 | | 06-01-2004 | Lindstrom, et al. | |
| A54 | US- 6,756,382 | | 06-29-2004 | Coleman, et al. | |
| A55 | US- 6,797,718 | | 09-28-2004 | Dellarria, et al. | |
| A56 | US- 6,818,650 | | 11-16-2004 | Griesgraber | |

| | |
|--|------------------|
| *Examiner: | Date Considered: |
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U.S. Patent Documents

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|-----------------|-------------|--|--|--|---|
| | A57 | US- 2002/0016332 A1 | 02-07-2002 | Slade | |
| | A58 | US- 2002/0055517 A1 | 05-09-2002 | Smith | |
| | A59 | US- 2002/0058674 A1 | 05-16-2002 | Hedenstrom et al. | |
| | A60 | US- 2002/0110840 A1 | 08-15-2002 | Tomai et al. | |
| | A61 | US- 2003/0130299 A1 | 07-10-2003 | Crooks et al. | |
| | A62 | US- 2003/0133913 A1 | 07-17-2003 | Tomai et al. | |
| | A63 | US- 2003/0139364 A1 | 07-24-2003 | Krieg et al. | |
| | A64 | US- 2003/0161797 A1 | 08-28-2003 | Miller et al. | |
| | A65 | US- 2003/0199538 A1 | 10-23-2003 | Skwierczynski et al. | |
| | A66 | US- 2004/0014779 | 01-22-2004 | Gorden et al. | |
| | A67 | US- 2004/0091491 | 05-13-2004 | Kedl, et al. | |
| | A68 | US- 2004/0132079 | 07-08-2004 | Gupta, et al. | |
| | A69 | US- 2004/0141950 | 07-22-2004 | Noelle, et al. | |
| | A70 | US- 2004/0147543 | 07-29-2004 | Hays, et al. | |
| | A71 | US- 2004/0162309 | 08-19-2004 | Gorden, et al. | |
| | A72 | US- 2004/0171086 | 09-02-2004 | Fink, et al. | |
| | A73 | US- 2004/0175336 | 09-09-2004 | Egging, et al. | |
| | A74 | US- 2004/0176367 | 09-09-2004 | Griesgraber, et al. | |
| | A75 | US- 2004/0180919 | 09-16-2004 | Lee, et al. | |
| | A76 | US- 2004/0181130 | 09-16-2004 | Fox, et al. | |
| | A77 | US- 2004/0181211 | 09-16-2004 | Elliott, et al. | |
| | A78 | US- 2004/0191833 | 09-30-2004 | Fink, et al. | |
| | A79 | US- 2004/0192585 | 09-30-2004 | Fox, et al. | |
| | A80 | US- 2004/0197865 | 10-07-2004 | Gupta, et al. | |
| | A81 | US- 2004/0202720 | 10-14-2004 | Wightman, et al. | |
| | A82 | US- 2004/0214851 | 10-28-2004 | Birmachu, et al. | |
| | A83 | US- 2005/0054590 | 03-10-2005 | Averett | |

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| Page 4 of 5 | | Art Unit | Unknown |
| | | Examiner Name | Unknown |
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| Foreign Patent Documents | | | | | | |
|--------------------------|-------------|--------------------------|----------------------------|--------------------------------|--|---|
| Exam. Init.* | Cite No. | Foreign Patent Document— | | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Ctry. Code | Number-KindCode (If known) | | | |
| | B1 | PCT | WO 01/74343 | 10-11-2001 | | |
| | B2 | PCT | WO 02/36592 | 05-10-2002 | | |
| | B3 | PCT | WO 02/46194 | 06-13-2002 | | |
| | B4 | PCT | WO 02/46749 | 06-13-2002 | | |
| | B5 | PCT | WO 02/102377 | 12/27-2002 | | |
| | B6 | PCT | WO 03/020889 | 03-13-2003 | | |
| | B7 | PCT | WO 03/043572 | 05-30-2003 | | |
| | B8 | PCT | WO 03/045391 | 06-05-2003 | | |
| | B9 | PCT | WO 03/097641 | 11-27-2003 | | |
| | B10 | PCT | WO 04/091500 | 10-28-2004 | | |
| | B11 | JP | 9-208584 | 08-12-1997 | | |
| | B12 | JP | 11-080156 A | 03-26-1999 | | |
| | B13 | JP | 11-222432 | 08-17-1999 | | |
| | B14 | JP | 2000-247884 (abs) | 09-12-2000 | | |
| | B15 | EP | 0 394 026 | 10-24-1990 | | |
| | B16 | EP | 1 104 764 | 06-06-2001 | | |

| OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS | | |
|--|-------------|---|
| Exam. Init.* | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published |
| | C1 | Wozniak, et al, "The Amination of 3-nitro-1, 5-naphthyridines by Liquid Ammonia/Potassium Permanganate ^{1,2} . A New and Convenient Amination Method.", <u>Journal of the Royal Netherlands Chemical Society</u> , 102, pp 511-513, December 12, 1983. |
| | C2 | Brennan, et al, "Automated Bioassay of Interferons in Micro-test Plates", <u>Biotechniques</u> , June/July, 78, 1983. |
| | C3 | Testerman, et al., "Cytokine Induction by the Immunomodulators Imiquimod and S-27609", <u>Journal of Leukocyte Biology</u> , Volume 58, pp. 365-372, September 1995. |
| | C4 | Bachman, et al, "Synthesis of Substituted Quinolylamines. Derivatives of 4-Amino-7-Chloroquinoline", <u>J. Org. Chem.</u> , 15, pp 1278-1284 (1950). |
| | C5 | Jain, et al, "Chemical and Pharmacological Investigations of Some ω -Substituted Alkylamino-3-aminopyridines", <u>J. Med. Chem.</u> , 11, pp 87-92 (1968). |
| | C6 | Baranov, et al., <u>Chem. Abs.</u> , 85, 94362, (1976). |

| | |
|--|------------------|
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| Art Unit | Unknown |
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OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

| Exam. Int.* | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published |
|----------------|-------------|--|
| | C7 | Berényi, et al, "Ring Transformation of Condensed Dihydro-as-triazines", <u>J. Heterocyclic Chem.</u> , 18, pp 1537-1540 (1981). |
| | C8 | Chollet, et al, "Development of a Topically Active Imiquimod Formulation", <u>Pharmaceutical Development and Technology</u> , 4(1), pp 35-43 (1999) |
| | C9 | Izumi, et al., "1 <i>H</i> -Imidazo[4,5- <i>c</i>]quinoline Derivatives as Novel Potent TNF- α Suppressors: Synthesis and Structure-Activity Relationship of 1-, 2- and 4-Substituted 1 <i>H</i> -imidazo[4,5- <i>c</i>]pyridines", <u>Bioorganic & Medicinal Chemistry</u> , 11, pp 2541-2550 (2003) |

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Date Considered:

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